

HOOD CANAL – BIG BEEF CREEK SUMMER CHUM

In 1992 this stock was a component of the Hood Canal summer chum stock and did not receive a separate status rating.

STOCK STATUS

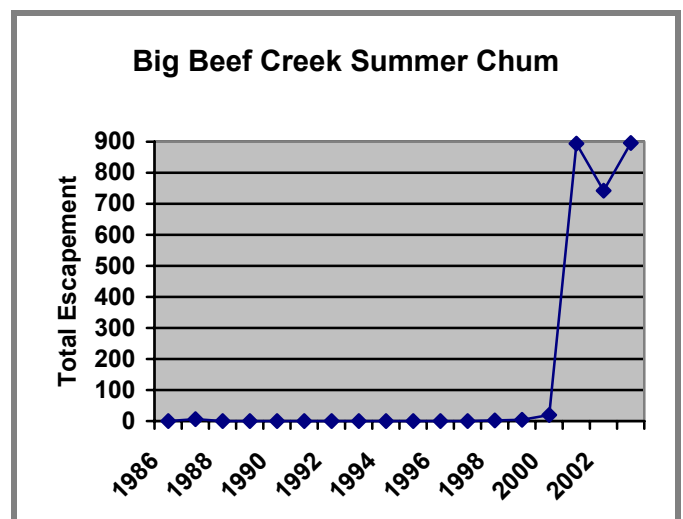
1992 STATUS	2002 STATUS
Not rated	Extinct

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS:

Excellent

YEAR	TOTAL ESCAPEMENT
1986	0
1987	6
1988	0
1989	0
1990	0
1991	0
1992	0
1993	0
1994	0
1995	0
1996	0
1997	0
1998	0
1999	0
2000	20
2001	894
2002	742
2003	896



Data are total escapement estimates based on rack counts (the University of Washington maintains a rack at the mouth of Big Beef Creek, which is operated by WDFW) and live spawner counts from RM 0.0 to 1.7.

The native stock declined precipitously in the 1980s, and no summer chum returned to the creek from 1988 through 1997. A program was begun in 1996 to reintroduce summer chum to Big Beef Creek using broodstock from the Big/Little Quilcene summer chum stock (WDFW and PNPTT 2000). The present population is considered a range extension of the Big/Little Quilcene stock. Summer chum are beginning to return to Big Beef Creek, and these fish were used as broodstock for the program beginning in 2000. Nonetheless the Big Beef Creek stock continues to be rated **Extinct** because we do not yet know whether a naturally producing population is established in the creek.

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STOCK DEFINITION

Big Beef Creek summer chum were recognized as a separate stock in a state-tribal summer chum recovery plan (WDFW and PNPTT 2000) based on the distinct spawning distribution and early spawning timing of the native stock.

SPAWNING DISTRIBUTION: Most spawning takes place in the lower two miles of Big Beef Creek.

SPAWNING TIMING: Spawning generally occurs from mid-September through mid-October.

GENETIC ANALYSIS: No genetic sampling was conducted prior to the loss of the native stock. Genetic samples were collected during 2000 and 2001.

STOCK ORIGIN

The original stock was **native** with **wild** production. The introduced stock is **non-native** with **cultured** production since it originated from the Big/Little Quilcene stock and it has been supported by hatchery production at both the U.S. Fish and Wildlife Service's Quilcene National Fish Hatchery and the University of Washington Big Beef Creek Hatchery beginning in 1996.